## INTERNATIONALSEARCHREPORT

International application No PCT/JP2005/018397

## A CLASSIFICATION OF SUBJECT MATTER

Int Cl H02M3/155 (2006. 01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int Cl H02M3/155 (2006 01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published unexammed utility model applications of Japan 1971-2005
Registered utility model applications of Japan 1972-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y A	JP 2002-262554 A (LINEAR TECHNOLOGY CORP) 13.09.2002, Fig. 2 & US 2002/0135338 Al & GB 2376091 A & GB 2407882 A & DE 10205069 A & TW 550444 B	1 2-12
Y A	WO 2003/058804 A2 (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 17.07.2003, Claim 1, Fig.1 & JP 2005-514896 A & US 2005/0116748 A1 & DE 10200917 A & EP 1472781 A	1 2-12
Y A	JP 2002-543728 A (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 17.12.2002, Claim 1 & US 6393572 Bl & EP 1090343 A & WO 2000/067101 A & CN 1302397 A	1 2-12

r ·	Further documents are listed in the continuation of Box C	ľ	See patent family annex	
"A"	Special categories of cited documents document defining the general state of the art which is not considered to be of paracular relevance earlier application or patent but published on or after the inter-		later document published after the international filing date priority date and not in conflict with the application but cited understand the principle or theory underlying the invention	or d b
"L"	national filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means	"X"	document of particular relevance, the claimed invention can be considered novel or cannot be considered to involve inventive step when the document is taken alone	inot an
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"P"	document published prior to the international filing date but later than the priority date claimed	<b>"&amp;"</b>	document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report		
	17.11.2005		29.11.2005	
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